



*Research Article*

# **Effectiveness of Audit Committee and Firm Financial Performance in Nigeria: An Empirical Analysis**

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## **Abstract**

Audit Committee role is very important to the protection of shareholders and other stakeholders interests. This research study explores the influence of audit committee effectiveness on firm's performance using four characteristics: independence, financial expertise, size, and meetings of the audit committee. The performance measures were Return on Equity (ROE), Return on Asset (ROA) and Return on Capital Employed (ROCE). Twenty-five (25) manufacturing firms were selected and from which data were collected for the period (2004-2011). Empirical analysis was carried out using regression and correlation. The result of the analysis showed a positive significant relationship between independence and financial expertise of the audit committee and ROA, ROE and ROCE. However, the size and meetings of audit committee showed no significant relationship with all performance variables. This study therefore recommends that the audit committee should be made more effective by ensuring that members are made up of independent non-executive directors and also ensure that more members with financial expertise especially accounting expertise be drafted into the audit committee and lastly ensure that audit committee meetings are tailored towards relevant issues that enhance the financial performance of the firm.

**Keywords:** Audit Committee Characteristics, Financial Performance, Nigeria

**JEL Classifications:** M40; M41; M42

## **Introduction**

There have been massive fraud and unethical practices within and among a number of organizations in Nigeria including Unilever

Plc. Quadri (2010) posited that "the recent insider trading, massive and prevalent frauds, mandatory retirement of CEOs of banks, due to corrupt practices and inefficient rubber-stamped board, have

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combined to signal the absence of or failure of existing corporate governance structure". In addition, the Companies and Allied Matters Act (CAMA) 2004 which was enacted to ensure that the relationship among the board, shareholders and the management including other stakeholders is balanced for healthy competition has not lived up to expectation both from the government and the public at large.

The events had serious devastating effect on stakeholders in terms of losses in their investments. The events also resulted in the loss of hundreds of jobs especially in the manufacturing sector and drastic drop in the share prices of most listed companies on the Nigerian Stock Exchange Market. The shock to the stakeholders and the public led to the yet unanswered question of 'how' such event could have happened when companies were declaring billions of Naira in profit. Therefore, the trust which investors had on the credibility and the quality of financial report presented by the management of companies could no longer be sustained as they were considered misleading. Hence, a higher need to protect stakeholders' interest so as not to have another overwhelming shock becomes imperative. The cumulative effects of the ugly events led to the total overhaul of the Nigerian Code of Corporate Governance by the Securities and Exchange Commission (SEC) in 2011.

The overhaul was particularly instructive because the audit committees of companies were severely criticized because they are charged with the responsibility to oversee the financial and other reporting process of organization in order to enable them show credibility, integrity and transparency in their operations, including financial reporting. Oniwinde (2010) posits that the reported cases of poor and fraudulent financial reporting and governance experienced recently in Nigeria demonstrated the role the audit committee has to play either directly or indirectly as they are charged with overseeing financial reporting. The responsibilities bestowed on them due to information asymmetry between

the management and the owners of the business was expected to ease the agency problems which would invariably lead to the reduction of agency cost when the substantial interests of the owners are aligned with the company's interests (Yayah, Abdullah, Faudziah & Ebrahim, 2012). However, this objective seems not to have been realized in Nigeria.

In the light of the foregoing, various authors have studied the audit committee as an instrument of good corporate governance (Owolabi and Dada, 2011; Kumar and Singh, 2012) and also their influence on the financial reporting process for better performance. In their study, Mohiuddin and Karbhari (2010) found that an audit committee that will influence corporate financial reporting positively and effectively carry out their agency duties must possess certain attributes such as independence, financial expertise, membership mix, size and number of meetings. These are in line with the revised SEC Code of 2011.

Similar studies have also been carried out in the context of Nigeria (see Mohammed & Oladele, 2008; Uwuigbe, 2013). These studies have focused on corporate governance and the financial performance of firms in Nigeria. Thus, the question still remains: what is the impact of audit committee characteristics on the financial performance of firms in Nigeria? The objective of this study, therefore, is to examine the relationship between audit committee characteristics and firm performance in the context of Nigeria's manufacturing companies. The audit committee characteristics are decomposed into: independence, financial expertise, meetings and size while performance is captured by Return on Equity (ROE), Return on Assets (ROA) and Return on Capital Employed (ROCE).

The rest of the paper is structured into four parts. Part 2 discusses the literature and hypotheses development and part 3 the methodology, part 4 discusses the analysis and implications of findings while part 5 is the conclusion and recommendations.

## Literature Review and Hypotheses Development

Every public company in Nigeria is mandated under Section 359 (3) and (4) of the CAMA to establish an audit committee. It is the responsibility and the function of the Board to make sure that the committee is constituted according to the laid down policies which would make it able to effectively carry out its statutory duties and responsibilities. There are many indicators or variables that may form yardsticks by which audit committee can be measured in an organization. Some of these yardsticks which have earlier been identified are briefly discussed below.

### *Audit Committee Independence and Financial Performance*

The independence of directors of companies has been widely discussed in the literature. Klein (2002) found that having outside directors on the board enhances and promotes corporate performance and the returns to shareholders. Similarly, independent directors are better monitors of management than are inside directors (DeFond and Francis, 2005). In like manner, the outside directors are seen as acting in the interest of shareholders which makes a significantly excess return follows the appointment of outside directors (Sanda, Garba & Mikailu, 2011). This is particularly true when independent directors are members of the audit committee. For instance, Anderson, Mansi and Reeb (2004) found that full independent audit committees brings about lower debt financing costs which indicates that all the members must be independent before there could be any significant impact. Based on the foregoing, the following hypothesis is proposed:

**H<sub>1</sub>:** *A significant relationship does not exists between audit committee independence and Return on Equity, Return on Asset and Return on Capital Employed (ROCE) of listed manufacturing companies in Nigeria*

### *Audit Committee Financial Expertise and Financial Performance*

The issue of financial expertise for at-least one audit committee member was first recognized under Section 359 (3) and (4) of the CAMA. This was further re-echoed in the SEC code of 2011. And this has support in the literature. Carcello, Hollingsworth, Klein and Neal (2006) opined that having a member of an audit committee that possesses a financial expertise would likely reduce earnings management for firms where the corporate governance mechanisms are weak. Similarly, Qin (2007) found that firms with higher quality of earning are more associated with audit committee members who have financial expertise. This position has also been confirmed in more recent studies. Bouaziz (2012) found that “audit committee financial expertise has a significant impact on returns on equity and return on asset”. Based on the above evidence, a positive relationship between audit committee financial expertise and firm financial performance is expected. This study therefore hypothesized as follows:

**H<sub>2</sub>:** *A significant relationship does not exists between audit committee financial expertise and Return on Equity, Return on Asset and Return on Capital Employed (ROCE) of listed manufacturing companies in Nigeria*

### *Audit Committee Meeting and Financial Performance*

The Code of best practice (2003) in Nigeria recommends that the audit committee meets not less than three times a year. Chen and Zhou (2004) noted that audit committee meetings serve as an important mechanism for improving and promoting corporate governance in firms. There is likeliness that financial fraud would be reduced if the audit committee meets frequently and carry out its duties as required (Stewart & Munro, 2007). The frequency of audit committee meetings has also been observed to have positive influence on return on equity (Azam, Hoque and Yeasmin, 2010). This paper therefore hypothesized that:

**H<sub>3</sub>:** *A significant relationship does not exist between audit committee meetings and Return on Equity, Return on Asset and Return on Capital Employed (ROCE) of listed manufacturing companies in Nigeria*

#### *Audit Committee Size and Financial Performance*

It is the requirements of some Stock Exchanges that the audit committee for the listed companies be made up of three members (Al -Sa'eed & Al-Mahamid, 2011). However, CAMA (1990) sec. 359 specifies the maximum number of audit committee members in Nigeria as six but did not specify the minimum. Bedard, Chtourou and Courteau (2004) have argued that when the audit committee is large, the control and oversight functions over the accounting and financial processes increase. In agreement to this Anderson, Mansi and Reeb (2004) found that large size audit committees with a large size has the potential to protect and control the process of accounting and finance by bringing in greater transparency. A very large audit committee can bring about dispersion of responsibility and process losses (Karamanou & Vafeas, 2005). This hypothesis is therefore drawn:

**H<sub>4</sub>:** *A significant relationship does not exist between audit committee size and Return on Equity, Return on Asset and Return on Capital Employed (ROCE) of*

*listed manufacturing companies in Nigeria*

#### **Research Methods**

The focus of this study is on the manufacturing sector in Nigeria. According to the Nigerian Stock Exchange listings, the total number of manufacturing firms is 110. In obtaining the sample for this study, the judgmental non-probability sampling technique was employed. As a result, a sample size of 25 companies listed on the Nigerian Stock Exchange from 2004 to 2011 was selected based on the availability and accessibility of the financial report of the chosen companies. The sectors include: Agriculture, Food and Beverage, Conglomerates, Health care, Building material, Industrial goods, Printing and Publishing, Automobile, Breweries, Chemicals and paints and Construction/Real estate.

The firm performance was measured by Return on Equity (ROE), Return on Asset (ROA) and Return on Capital Employed (ROCE) as the dependent variables, while the independent variables were measured by four audit committee characteristics namely: audit committee independence (ACINDP), audit committee financial expertise (ACSFEXP) and one control variable, board size (BSIZE), audit committee meetings (ACMEET) and audit committee size (ACSIZE),

**Table 3.1: Synopsis of Variables' Measurement/Description**

| Names of variables         | Acronym | Measurement           |
|----------------------------|---------|-----------------------|
| <b>Dependent Variables</b> |         |                       |
| Return on Equity           | ROE     | PAT/equity            |
| Return on Asset            | ROA     | PAT/Total Assets      |
| Return on Capital Employed | ROCE    | PBIT/capital employed |

### Summary of Variables Measurement/Description (continued)

| Independent Variables               |        |  |
|-------------------------------------|--------|--|
| Audit Committee Independence        | ACIND  | The percentage of non-executive director in the audit committee.                           |
| Audit Committee Financial Expertise | ACFEXP | The number of individuals on the audit committee who are experienced in finance knowledge. |
| Audit Committee Meetings            | ACMEET | The number of times which an audit committee required to meet in a year                    |
| Audit Committee Size                | ACSIZE | The minimum and maximum number of members which an audit committee required to have.       |
| Control Variable                    |        |  |
| Board Size                          | BSIZE  | The number of people on the board as at the day of the year or period end.                 |

#### Model Specification

However, the following mathematical model was developed to analyze the relationship that exists between financial performance and audit committee effectiveness as represented below:

$$Y = \beta_0 + \beta X_1 + \mu_{it} \dots \dots \dots (1)$$

Where, Y represents the dependent variable.  $\beta_0$  is constant,  $\beta$  is the coefficient of the explanatory variable (audit committee effectiveness),  $\beta X_1$  is the independent variable and  $e_{it}$  is the error term.

Representing equation (1) above in an econometric model, equation (2, 3 & 4) below therefore becomes:

$$ROA_{it} = \beta_0 + \beta_1 ACIND_{it} + \beta_2 ACFEXP_{it} + \beta_3 ACMEET_{it} + \beta_4 ACSIZE_{it} + BS_{it} + \mu_{it} \dots \dots \dots (2)$$

$$ROE_{it} = \beta_0 + \beta_1 ACIND_{it} + \beta_2 ACFEXP_{it} + \beta_3 ACMEET_{it} + \beta_4 ACSIZE_{it} + BS_{it} + \mu_{it} \dots \dots \dots (3)$$

$$ROCE_{it} = \beta_0 + \beta_1 ACIND_{it} + \beta_2 ACFEXP_{it} + \beta_3 ACMEET_{it} + \beta_4 ACSIZE_{it} + BS_{it} + \mu_{it} \dots \dots \dots (4)$$

#### Analysis and Presentation of Results

regression analysis for the hypotheses testing.

The data presented involved tables and figures which were used for the descriptive statistics and correlation analysis and

*Descriptive Statistics***Table 4.1: Distribution of Samples**

| Sector                  | Percentage |
|-------------------------|------------|
| Food and Beverage       | 12%        |
| Agriculture             | 8%         |
| Breweries               | 8%         |
| Industrial products     | 8%         |
| Conglomerates           | 16%        |
| Chemicals and Paints    | 8%         |
| Building Materials      | 12%        |
| Health Care             | 16%        |
| Automobile              | 4%         |
| Printing and Publishing | 4%         |
| Construction            | 4%         |
| Total                   | 100%       |

Table 4.1 shows the sample distribution of each sector in the manufacturing industry. While Conglomerates account for the highest as a result of the accessibility of the financial statements, the automobile, printing and

publishing and construction came last. This was because the financial statement of these sectors is not easily assessable. But overall, all the sectors are fairly represented in the sample.

**Table 4.2: Descriptive Statistics for all the selected Sectors (2004-2011)**

| Variable | Year Observations | Mean     | Std. Dev. |
|----------|-------------------|----------|-----------|
| ROA      | 200               | 11.0722  | 60.17561  |
| ROE      | 200               | 19.67307 | 40.15511  |
| ROCE     | 200               | 31.01451 | 27.70467  |
| ACIND    | 200               | 31.96295 | 14.12511  |
| ACFEXP   | 200               | 2.26     | 0.751815  |
| ACSIZE   | 200               | 5.72     | 0.688455  |
| ACMEET   | 200               | 2.755    | 0.798853  |
| BSIZE    | 199               | 9.567839 | 2.45035   |

The result in table 4.2 showed on the average, that, there are two financial experts in the audit committee in the Nigerian

manufacturing industry as denoted in the biographical information of members, but surprisingly they do not meet more than 2

times in a year as against minimum four times specified in the Securities and Exchange Commission Codes of 2011 in Nigeria. However, the industry maintained on the average a required six members that Company and Allied Matters Act (2004) stipulated, whereas the percentage of non-executive directors in the audit committee was not quite encouraging considering the figure. The table also shows a mean score of 11, 20 and 31 on ROA, ROE and ROCE respectively. These low figures could be as a result of the credit crunch suffered in the system during the financial meltdown, and also- infrastructural facilities lacking in Nigeria for example power (electricity) which has increased the cost of production in the country. However, with those attendant

challenges, the industry was still able to generate relatively high return on capital employed when compared with ROA and ROE.

### Correlation Analysis

Pearson Moment Correlation was carried out on both the dependent and explanatory variables to check for multicollinearity and relationship between the various variables in the study. Gujarati and Porter (2009); Hair, Black, Babin and Anderson (2010) reasoned 0.8 as the threshold at which multicollinearity concerns can be harmful to the regression analysis and make the reliability or the positive power of the model as a whole to be reduced.

**Table 4.3: Result of Pearson Correlation Analysis of independent variables and ROA, ROE and ROCE**

| Return on Asset (ROA) as dependent variable             |        |         |        |        |        |       |
|---|--------|---------|--------|--------|--------|-------|
| Variables   | ROA    | ACIND   | ACFEXP | ACSIZE | ACMEET | BSIZE |
| ROA   | 1      |         |        |        |        |       |
| ACIND   | 0.1768 | 1       |        |        |        |       |
| ACFEXP  | 0.2807 | 0.2387  | 1      |        |        |       |
| ACSIZE  | 0.064  | -0.0577 | 0.1166 | 1      |        |       |
| ACMEET  | 0.0239 | 0.0305  | 0.1638 | 0.1649 | 1      |       |
| BSIZE   | 0.0161 | 0.1039  | 0.1319 | 0.2384 | 0.1693 | 1     |
| Return on Equity (ROE) as dependent variable            |        |         |        |        |        |       |
| Variables   | ROE    | ACIND   | ACFEXP | ACSIZE | ACMEET | BSIZE |
| ROE   | 1      |         |        |        |        |       |
| ACIND   | 0.1533 | 1       |        |        |        |       |
| ACFEXP  | 0.1707 | 0.2387  | 1      |        |        |       |
| ACSIZE  | 0.0263 | -0.0577 | 0.1166 | 1      |        |       |
| ACMEET  | 0.1108 | 0.0305  | 0.1638 | 0.1649 | 1      |       |
| BSIZE   | 0.1535 | 0.1039  | 0.1319 | 0.2384 | 0.1693 | 1     |
| Return on Capital Employed (ROCE) as dependent variable |        |         |        |        |        |       |
| Variables   | ROCE   | ACIND   | ACFEXP | ACSIZE | ACMEET | BSIZE |
| ROCE  | 1      |         |        |        |        |       |
| ACIND   | 0.359  | 1       |        |        |        |       |
| ACFEXP  | 0.2705 | 0.2387  | 1      |        |        |       |
| ACSIZE  | 0.0179 | -0.0577 | 0.1166 | 1      |        |       |
| ACMEET  | 0.1615 | 0.0305  | 0.1638 | 0.1649 | 1      |       |
| BSIZE   | 0.2023 | 0.1039  | 0.1319 | 0.2384 | 0.1693 | 1     |

The correlation matrix as shown in table 4.3 indicates that the assumption of multicollinearity has not been violated because none of the variables is greater than

0.7 and 0.8. All the variables were positively correlated to one another apart from the ACIND and ACSIZE which show a negative sign.

## Multiple Linear Regression Analysis

Table 4.4: Regression Results: Whole Sample

| Independent Variables  | Predicted Sign | Financial Performance Measurements |                               |                                 |
|--|----------------|------------------------------------|-------------------------------|---------------------------------|
|  |                | 1                                  | 2                             | 3                               |
|  |                | ROA                                | ROE                           | ROCE                            |
|  |                | Coefficient                        | Coefficient                   | Coefficient                     |
|  |                | (t-statistics)                     | (t-statistics)                | (t-statistics)                  |
|  |                | P-value                            | P-value                       | P-value                         |
| ACIND  | +              | 0.530704**<br>(1.75)<br>0.082      | 0.3103271<br>(1.5)<br>0.134   | 0.5868732***<br>(4.47)<br>0.000 |
| ACFEXP   | +              | 20.45318**<br>(3.52)<br>0.082      | 6.446168*<br>(1.63)<br>0.100  | 6.185742*<br>(2.46)<br>0.015    |
| ACSIZE   | ?              | 4.804003<br>(0.77)<br>0.444        | -1.258133<br>(-0.3)<br>0.768  | -1.412742<br>(-0.52)<br>0.603   |
| ACMEET   | +              | -1.80809<br>(-0.34)<br>0.736       | 3.601922<br>(0.99)<br>0.324   | 3.728032<br>(1.61)<br>0.109     |
| <b>Control Variable</b>  |                |                                    |                               |                                 |
| BSIZE  | -              | -0.96771<br>(-0.55)<br>0.585       | 1.961693*<br>(1.63)<br>0.100  | 1.57484**<br>(2.06)<br>0.041    |
| Constant   |                | -65.4909*<br>(-1.73)<br>0.086      | -26.40585<br>(-1.02)<br>0.307 | -18.88821<br>(-1.15)<br>0.251   |
| <b>P-value</b>   |                | <b>0.0015</b>                      | <b>0.0273</b>                 | <b>0.000</b>                    |
| <b>F-test</b>  |                | <b>4.07</b>                        | <b>2.59</b>                   | <b>9.5</b>                      |
| <b>R<sup>2</sup></b>   |                | <b>0.0955</b>                      | <b>0.0628</b>                 | <b>0.1975</b>                   |
| <b>R<sup>2</sup> Adjusted</b>  |                | <b>0.721</b>                       | <b>0.0385</b>                 | <b>0.1767</b>                   |
| <b>No of Obs.</b>  |                | <b>199</b>                         | <b>199</b>                    | <b>199</b>                      |
| Note: ROA, ROE and ROCE in this table represents Return on Asset, Return on Equity and Return on Capital Employed and three indicators represent the financial performance variables for this study; ACIND represents audit committee independence, ACFEXP represents audit committee financial expertise, ACSIZE represents audit committee size, ACMEET represents audit committee meeting and BSIZE represents Board Size. ***= significant at 1%; **= significant at 5%; *= significant at 10% |                |                                    |                               |                                 |

Note: Numbers in each cell are arranged in the following order-Coefficient, t-values (in parenthesis) and P-values.



From table 4.4, the results showed that, the audit committee independence (ACIND) had positive signs in all the three equations (i.e. ROA, ROE and ROCE), but was significant in two of them i.e. ROA and ROCE at 10% and 1% level of significance respectively. Thus, the null hypothesis was rejected in favor of the alternative hypothesis with respect to ROA and ROCE. This indicates that, audit committee independence (i.e. number of non-executive directors in the audit committee) is good for firm financial performance. This result supports our early expectation of positive relationship and is in agreement with earlier studies such as Chan and Li (2008), whose result shows that a significant positive relationship between Tobin's Q and independence of the audit committee exist. Mohiuddin and Karbhari (2010); Sanda, Garba & Mikailu (2011) also concluded in like manner that, outside directors are seen as acting in the interest of shareholders in that the appointment of outside directors is accompanied by significantly positive excess returns. However, this finding is in contrast with the submission of Hsu (2007) who failed to establish any relationship between audit committee independence and performance. Yayah, Abdullah, Faudziah and Ebrahim (2012) also found audit committee independence (ACIND) to be insignificantly related to performance.

With respect to audit committee financial expertise (ACFEXP), the result supports earlier expectation. It shows that audit committee financial expertise (ACFEXP) has positive impact on the financial performance (ROA, ROE and ROCE). The impact is also significant at the 10% and 5% respectively for ROA and ROCE. ROE is insignificant. The result partly supports the alternative hypothesis that audit committee financial expertise positively and significantly influences the firm's financial performance. This result is consistent with prior studies (see Bouaziz, 2012).

In term of audit committee size (ACSIZE), the result shows a positive sign for ROA, ROE and ROCE but not significant. This indicates that

audit committee size (ACSIZE) does not influence the financial performance of firms in Nigeria. Therefore, this study concludes that there is no relationship between audit committee size and the firm's financial performance. Mere size may not be enough for financial performance. This study is in contrast with Yayah, Abdullah, Faudziah and Ebrahim (2012) who found a negative but significant relationship between audit committee independence and performance in Saudi Arabia's firms.

Similarly, audit committee meeting shows positive sign with respect to ROA, ROE and ROCE but was not significant. The audit committee in the manufacturing sector in Nigeria meets on the average two times as seen in table 4.2 which indicates that, audit committee meeting does not influence the financial performance of firms in Nigeria. This result is in agreement with previous studies Yayah, Abdullah, Faudziah and Ebrahim (2012) who found that audit committee meeting (ACMEET) was insignificantly related to the performance of firms in Saudi Arabia. The audit committee could be meeting just to comply with the requirements of various governmental agencies (e.g. Central Bank of Nigeria and Securities and Exchange Commission's) and not necessarily carrying out roles that can enhance the financial performance of firms.

## Conclusion

This study investigated the relationship between audit committee effectiveness and the firm's financial performance in Nigeria. The results showed that certain measures of audit committee effectiveness (such as audit committee independence, audit committee financial expertise and board size) have positive coefficients and significantly influence the firm's financial performance. Although, the result showed that audit committee meeting had a significant positive relationship with return on capital employed (ROCE), but generally the result showed that audit committee size and audit committee

meeting did not add value to the firm's financial performance in Nigeria.

The results suggest important implications for practitioners and policy makers in Nigeria. One important and major implication is that, audit committee members with financial expertise do contribute significantly to the financial performance of firms and likewise the independence of the members. Therefore, Nigeria needs to strengthen policies by ensuring that the provision made in the Nigeria Securities and Exchange Commission Code of 2011 about the financial expertise of audit committee members is made compulsory particularly when new members are being considered. The particulars and biographical data of members of the audit committee with required experience and expertise should as a matter of compulsion, be disclosed in the annual financial report. In addition, the independence of audit committee members should be enhanced by ensuring that more of independent directors are introduced into the audit committee as against non-executive directors who still hold one form of interest or the other in the firm.

This study, like other previous studies, does have its limitations and therefore, the conclusions drawn should be interpreted with caution which would invariably serve as opportunities for further investigation in future research in this area. First, although this study captured the listed manufacturing sector in Nigeria, companies which operate in the financial sector are excluded since they have special practices and operations. Second, this study adopted the general definition of financial expertise; however, future research could consider the narrower definition. Also, the financial expertise was looked at generally without decomposing it into accounting, finance and supervisory expertise. This could help in future research. Third, only four characteristics of the audit committee were considered in the study. Hence, future study could investigate other audit committee characteristics that are not included in this study such as female

members, state of origin of the members, and political connection(s) of the members.

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